

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

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1. (Original) Apparatus for dispensing a substance, comprising:  
a dispensing controller (332); and  
a dispenser (330) operated by said dispensing controller (332) for dispensing a substance at times determined by said dispensing controller (332);  
characterized by said dispenser (330) and said dispensing controller (332) being themselves injectable into an animal/human.

2. (Currently Amended) Apparatus according to claim 1 wherein said dispenser (330) provides continuous application of said substance to said animal/human.

3. (Currently Amended) Apparatus according to claim 1 wherein said dispenser (330) provides discontinuous application of said substance to said animal/human.

4. (Currently Amended) Apparatus according to claim 1 further comprising a supply of a substance in communication with said dispenser.

5. (Currently Amended) Apparatus according to claim ~~4~~6 further comprising a biological sensor (169) which senses biological information of said animal/human and provides an input related to the information to said dispensing controller (158, 332).

6. (Original) Apparatus for dispensing substances to animals comprising:  
an dispensing controller (352); and  
a dispenser (350) operated by said dispensing controller (352) for dispensing a substance to an animal at times determined by said dispensing controller (352);  
characterized by said dispenser (350) comprising a Micro-Electro-Mechanics Systems (MEMS) pump (354).

Claims 7-16 - cancelled.

17. (Original) A dispensing assembly (280) comprising:  
an dispensing controller; and  
a dispenser operated by said dispensing controller for dispensing a substance (284) at times determined by said dispensing controller,  
and wherein said dispenser comprises:  
at least one container cell (282) containing said substance (284); and

release apparatus, responsive to said dispensing controller, for selectably releasing said substance (284) from said at least one cell (282) in a desired timed pattern, determined by said dispensing controller;

characterized by further comprising a needle (294) in fluid communication with said at least one cell (282), wherein upon actuation of said release apparatus, said substance (284) is brought in fluid communication with said needle (294).

18. (Original) The assembly (280) according to claim 17 wherein upon actuation of said release apparatus, a force of said substance (284) exiting said cell propels said needle (294) in a generally linear direction.

19. (Original) The assembly (280) according to claim 17 wherein said dispenser provides continuous application of said substance (284).

20. (Original) The assembly (280) according to claim 17 wherein said dispenser provides discontinuous application of said substance (284).

21. (Original) The assembly (280) according to claim 17 wherein said substance (284) is vacuum-packed in said discrete container cells (282).

22. (Original) The assembly (280) according to claim 17 further comprising a manifold (292) in fluid communication with said cells (282).

23. (Original) A dispensing assembly (280) comprising:

an dispensing controller; and  
a dispenser operated by said dispensing controller for dispensing a substance (284)  
at times determined by said dispensing controller,  
and wherein said dispenser comprises:  
a plurality of discrete container cells (282), each containing said substance (284);  
and  
release apparatus, responsive to said dispensing controller, for selectably releasing  
said substance (284) from individual ones of said container cells (282) in a desired timed  
pattern, determined by said dispensing controller;  
characterized in that the release apparatus of one of said cells (282) acts as a  
switch to switch electricity to the release apparatus of a subsequent cell (282).

24. (Original) The dispensing assembly (280) according to claim 23 wherein  
said release apparatus itself serves as a feedback for proper operation of the release  
apparatus.

25. (Original) A dispensing assembly (280) comprising:  
an dispensing controller; and  
a dispenser operated by said dispensing controller for dispensing a substance (284)  
at times determined by said dispensing controller,  
and wherein said dispenser comprises:

a plurality of discrete container cells (282), each containing said substance (284);  
and

release apparatus, responsive to said dispensing controller, for selectably releasing  
said substance (284) from individual ones of said container cells (282) in a desired timed  
pattern, determined by said dispensing controller;

characterized in that said dispensing controller operates the release apparatus of  
said cells (282) with an input to an electrical contact (400), wherein subsequent  
activations of the same said input to the same said electrical contact (400) subsequently  
activate the release apparatus of subsequent cells (282).

26. (Original) The dispensing assembly (280) according to claim 25 wherein  
said release apparatus itself serves as a feedback for proper operation of the release  
apparatus.

Claims 27-31 - Cancelled.

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